



Food and Drug Administration
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December 22, 2014

Xuanhua Metallurgical Industry Co., Ltd
C/O Mr. Chu Xiaoan
Rm. F302 Bldg., 41, Jing Cheng Ya Ju,
Courtyard 6 of Southern Dou Ge Zhuang
Beijing, 100121 CN
Chaoyang District, Beijing 100121
CHINA

Re: K142771

Trade/Device Name: Powder Free Vinyl Patient Examination Gloves, Clear (non-colored)
Regulation Number: 21 CFR 880.6250
Regulation Name: Patient Examination Gloves
Regulatory Class: I
Product Code: LYZ
Dated: December 1, 2014
Received: December 11, 2014

Dear Mr. Xiaoan:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in black ink that reads "Susan Runner DDS, MA". The signature is written in a cursive style. In the background, there is a faint, large watermark of the letters "FDA".

Erin I. Keith, M.S.
Director
Division of Anesthesiology, General Hospital,
Respiratory, Infection Control and
Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)
K142771

Device Name
Powder Free Vinyl Patient Examination Gloves, Clear (non-colored)

Indications for Use (Describe)
Powder Free Vinyl Patient Examination Gloves, Clear (non-colored) is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.

Type of Use (Select one or both, as applicable)

☐ Prescription Use (Part 21 CFR 801 Subpart D)

☒ Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

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Section C 510(k) Summary

510(K) Summary

"This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92."

"The assigned 510(k) number is: K142771 "

Premarket Notification [510(k)] Summary

1.0 Submitter:

Submitter's name : Xuanhua Metallurgical Industry Co., Ltd.
Submitter's address : Bridge North, Weisan Rd, East Ring Rd,
High-Tec District, Zhangjiakou City, Hebei
Province.075000,P.R.China
Phone number : 86-313-6216205
Fax number : 86-313-5809316
Name of contact person: Mr.Dong Yanlong
Date of preparation : 2014-09-14

2.0 Name of the Device

Device Name: Powder Free Vinyl Patient Examination
Gloves, Clear (non-colored)
Proprietary/Trade name: XUANYE Powder Free Vinyl Patient
Examination Gloves, Clear (non-colored)
Common Name: Exam gloves
Classification Name: Patient examination glove
Device Classification: I
Regulation Number: 21 CFR 880.6250
Panel: General Hospital (80)
Product Code: LYZ

3.0 Predicate device

Device Name: Powder-Free Vinyl Patient Examination Glove
(Non-colored)
Company name: Zhang Jia Gang Fengyuan Plastic Product Co.Ltd.
510(K) Number: K091663.

4.0 Device Description:

4.1 How the device functions:

PVC films form a barrier to body fluids and bloodborne Pathogens

4.2 Scientific concepts that form the basis for the device

The PVC rubber is water tight under normal conditions of use. It's tensile properties cause it to conform to the hand, allowing movements necessary for a

medical procedure.

4.3 Physical and performance characteristics such as design, materials and physical properties:

Poly (vinyl chloride) glove is known to create a barrier to bloodborne pathogens and body fluids. ASTM conforming tensile properties create a glove that is strong and flexible. The glove is manufactured in accordance with the requirements of ASTM D5250 and ASTM D5151 requirements.

5.0 Device Intended Use (Indication for use):

Powder Free Vinyl Patient Examination Gloves, Clear (non-colored) is a disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.

6.0 Summary of the Technological Characteristics of the Device:

The Powder Free Vinyl Patient Examination Gloves, Clear (non-colored), non sterile are summarized with the following technological characteristics compared to ASTM or equivalent standard.

Characteristics	Standard	Device performance
Dimension	ASTM standard D 5250-06(Reapproved 2011).	Meets
Physical Properties	ASTM standard D 5250-06(Reapproved 2011).	Meets
Freedom from pinholes	21 CFR 800.20	Meets
Powder Residual	ASTM standard D 5250-06 (Reapproved 2011).and D6124-06(Reaffirmation 2011)	Meets <2mg/glove
Biocompatibility	Primary Skin Irritation in rabbits ISO 10993-10: 2010-08-01	Passes Not a Primary Skin Irritation
	Dermal sensitization in the guinea pig ISO 10993-10: 2010-08-01	Passes Not a Dermal sensitization

7.0 Substantial Equivalent Based on Assessment of Non-Clinical Performance Data:

Powder Free Vinyl Patient Examination Gloves, Clear (non-colored), meet requirements per ASTM D5250-06 (Reapproved 2011), per ASTM D6124-06 Reaffirmation 2011), per 21 CFR 800.20 and ISO 10993-10:2010-08-01.

The performance test data of the non clinical tests that support a determination of substantial equivalent is the same as mentioned immediately above.

8.0 Substantial Equivalent Based on Assessment of Clinical Performance Data:

Clinical data is not needed for gloves or for most devices cleared by the 510(k) process.

9.0 Substantial Equivalence Comparison:

Features & Description	Predicate Device	Subject Device	Result of Comparison
Company	Zhang Jia Gang Fengyuan Plastic Product Co.Ltd.	Xuanhua Metallurgical Industry Co., Ltd.	--
510(K) Number	K091663	K142771	
Product name	Powder Free Vinyl Patient Examination Gloves, Clear (Non-colored)	Powder Free Vinyl Patient Examination Gloves, Clear (non-colored)	same
Product Code	LYZ	LYZ	same
Size	Small/ Medium/ Large/X large	Small/ Medium/ Large/X large	same
Intend for use	Powder free Vinyl Patient Examination Gloves, Clear(Non-colored)is a disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.	Powder free Vinyl Patient Examination Gloves, Clear (Non-colored) is a disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.	same
Device Description and Specifications	Meets ASTM D5250-06 (Reapproved 2011)	Meets ASTM D5250-06 (Reapproved 2011)	same
Dimensions --Length	Meets ASTM D5250 -06 (Reapproved 2011) ≥230mm min	230mm min for all sizes	same
Dimensions -- Width	Meets ASTM D5250-06 (Reapproved 2011) Small 80-90 mm Medium 90-100mm Large 100-110mm Xlarge 110-120 mm	 Small 80-85 mm Medium 94-100mm Large 102-108mm X large 113-116 mm	same
Dimensions --Thickness	Meets ASTM D5250-06 (Reapproved 2011) Finger 0.05mm min. Palm 0.08mm min.	 Thickness (mm) min. Finger 0.09-0.11 Palm 0.09-0.12	same
Physical Properties	Meets ASTM D 5250-06 (Reapproved 2011) Before aging/after aging Elongation ≥300% Tensile Strength≥ 14MPa	 Before aging/after aging Elongation :390-420% Tensile Strength:15-20 MPa	same
Freedom from Pinholes	Meets • 21 CFR 800.20 • ASTM D5250-06 (Reapproved 2011) • ASTM D 5151-06 (Reapproved 2011)	Meets ASTM D5151-06 (Reapproved 2011) Holes at Inspection Level I AQL2.5	same
Residual Powder	Meets ASTM D 6124-06 (Reapproved 2011) below 2mg of residual powder	Meets ASTM D 6124-06 (Reapproved 2011) Results generated values below 2mg of residual powder	same

Materials used to fabricate the devices	PVC	PVC	same
Dusting or Donning Powder:	PU	PU	same
Dusting or Donning Powder: name	PU	Surface Coating Agent	same
Compare performance data supporting substantial equivalence	Meets ASTM D5151-06 (Reapproved 2011) ASTM D5250-06 (Reapproved 2011) ASTM D6124-06 (Reaffirmation 2011)	Meets ASTM D5151-06 (Reapproved 2011) ASTM D5250-06 (Reapproved 2011) ASTM D6124-06 (Reaffirmation 2011)	same
Single Patient Use	Single Patient Use	Single Patient Use	same
Biocompatibility	Under the conditions of this study, the test article was a non-irritant or non-sensitizer. SKIN IRRITATION DERMAL and SENSITIZATION STUDIES Meets ISO 10993-10:2002/Amd.1:2006	Under the conditions of this study, the test article was a non-irritant or non-sensitizer. SKIN IRRITATION DERMAL and SENSITIZATION STUDIES Meets ISO 10993-10 Third Edition 2010-08-01	same
Labeling for the legally marketed device to which substantial equivalence is claimed.	-Powder Free -Patient Examination Glove -Single Use Only - Manufactured For: - Lot	-Powder Free -Patient Examination Glove -Single Use Only - Manufactured For: - Lot	same

10.0 Substantial Equivalence Comparison:

It can be concluded that the Powder Free Vinyl Patient Examination Gloves, Clear (non-colored) meet the ASTM standard or equivalent standard and FDA requirements for waterleak test on pinhole AQL meet labeling claims.

It can be concluded that the Powder Free Vinyl Patient Examination Gloves, Clear (non-colored) is as safe, as effective, and performs as well as the predicate device, Powder-Free Vinyl Patient Examination Glove (Non-colored) Zhang Jia Gang Fengyuan Plastic Product Co., Ltd. K091663.